

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10851 (1984): Taper Pin Machine Reamers with Parallel Shanks [PGD 32: Cutting tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

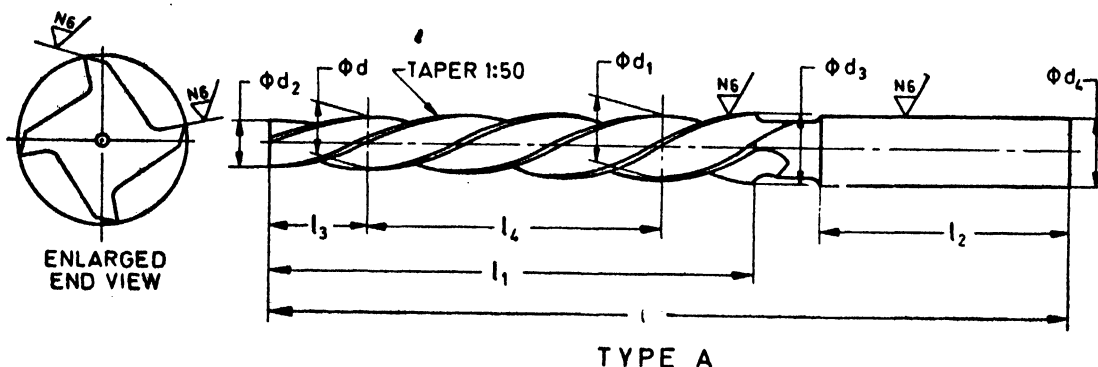
SPECIFICATION FOR TAPER PIN MACHINE REAMERS WITH PARALLEL SHANKS

- 1. Scope** — Covers the dimensions and requirements for taper pin machine reamers with parallel shanks, used for producing tapered holes for taper pins conforming to IS : 6688-1972 'Specification for taper pins'.
- 2. Types** — Shall be of two types:
Type A — without tenon, and
Type B — with tenon.
- 3. Dimensions** — Shall be as given in Table 1.

**TABLE 1 DIMENSIONS FOR TAPER PIN, MACHINE REAMERS
WITH PARALLEL SHANKS**

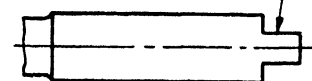
All dimensions in millimetres.

N9/(N6/)



TYPE A

TENON AS PER IS:5360



TYPE B

d Nom	d_1	d_2	d_3	d_4 h_9	l	l_1	l_2	l_3	l_4
2	2.7	1.9	2.86	3.15	86	48	29	5	35
2.5	3.2	2.4	3.36	3.15	86	48	29	5	35
3	3.9	2.9	4.06	4.0	100	58	32	5	45
4	5.1	3.9	5.26	5.0	112	68	34	5	55
5	6.2	4.9	6.36	6.3	122	73	38	5	60
6	7.8	5.9	8.00	8.0	160	105	42	5	90
8	10.6	7.9	10.80	10.0	207	145	46	5	130
10	13.2	9.9	13.40	12.5	245	175	50	5	160
12	15.6	11.8	16.00	16.0	290	210	58	10	180

Note 1 — For d nominal the diameter d corresponds to the nominal diameter of the taper pin.

Note 2 — The figure is indicative of dimensions only and does not specify design features.

Adopted 27 January 1984

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INDIAN STANDARDS INSTITUTION
MANAK BHAYAN, 5 SAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

IS : 10851 - 1984

3.1 The taper on taper pin reamers shall be 1:50. The cone angle tolerance shall be AT8 in accordance with IS : 7615-1975 'System of cone tolerances'.

4. Tolerances — Tolerances of cutting length l_1 and overall l shall be as given below:

Cutting Length l_1 and Overall Length l mm		Tolerance mm
Over	Up to and Including	
30	120	± 1.5
120	315	± 2.0

5. General Requirements

5.1 *Flutes* — Unless otherwise specified left hand spiral flutes for right hand cutting shall be provided.

5.2 For requirements not covered in this standard, it shall conform to requirements given in IS : 5443-1984 'Technical supply conditions for reamers (*first revision*)'.

6. *Sampling* — The sampling and criteria of acceptance shall be in accordance with IS : 7778-1975 'Methods for sampling small tools'.

7. *Designation* — A taper pin machine reamer with parallel shank of Type A having diameter $d = 5$ mm, made of high speed steel and conforming to this standard, shall be designated as:

Reamer A 5 IS : 10851

8. *ISI Certification Marking* — Details available with the Indian Standards Institution.

EXPLANATORY NOTE

Earlier, there were two standards on taper pin reamers, namely, IS : 5881-1984 'Taper pin hand reamers (*first revision*)' and IS : 5918-1984 'Taper pin machine reamers with morse taper shanks (*first revision*)'. This standard is being added to this series.

In the preparation of this standard considerable assistance has been derived from:

ISO 3466-1975 'Machine taper pin reamers with parallel shanks'. International Organization for Standardization (ISO).

DIN 2179-1975 'Machines — Kegelreibahlen für Kegelstiftbohrungen mit Zylinderschaft' (Machine-taper pin reamers with parallel shanks). Deutsches Institut für Normung (DIN).

All the dimensions given in this standard correspond to ISO 3466-1975. In addition, the surface roughness of the cutting portion and tolerances for cutting length and overall length have been specified.

AMENDMENT NO. 1 APRIL 1990
TO
IS 10851 : 1984 SPECIFICATION FOR TAPER PIN
MACHINE REAMERS WITH PARALLEL SHANKS

(*Page 2, clause 3.1, second sentence*) — Substitute the following for the existing sentence:

“The core angle tolerance shall be — AT8 in accordance with IS 7615 : 1975 ‘System of cone tolerances’.”

(PE 10)

O.K.
P. K. Guleri

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